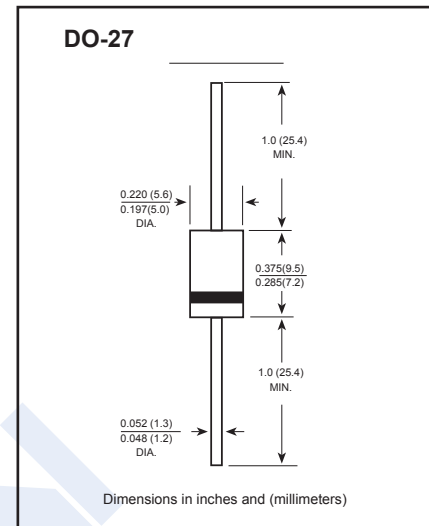


Ultra Fast Recovery Diodes

MUR405 ~ MUR4100

■ Features

- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- Ultra Fast Switching Speed For High Efficiency

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	MUR 405	MUR 410	MUR 415	MUR 420	MUR 440	MUR 460	MUR 480	MUR 4100	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	105	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	400	600	800	1000	
Averaged Forward Current $T_a=55^\circ\text{C}$	I_{FAV}	4								A
Peak Forward Surge Current	I_{FSM}	150								
Typical thermal resistance	$R_{\theta JC}$	20								$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	150								$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150								

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	MUR405-415	$I_F=4A, T_a = 25^\circ\text{C}$			1	V
	MUR420-460				1.35	
	MUR480-4100				1.85	
Reverse voltage leakage current	IR	$T_a = 25^\circ\text{C}$			10	uA
		$T_a = 100^\circ\text{C}$			50	
Reverse Recovery Time	MUR405-415	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$			45	ns
	MUR420-460				60	
	MUR480-4100				75	
Junction Capacitance	MUR405-460	$V_R=4V, f=1\text{MHz}$			80	pF
	MUR480-4100				50	

Ultra Fast Recovery Diodes

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■ Typical Characteristics

Figure 1
Typical Forward Characteristics

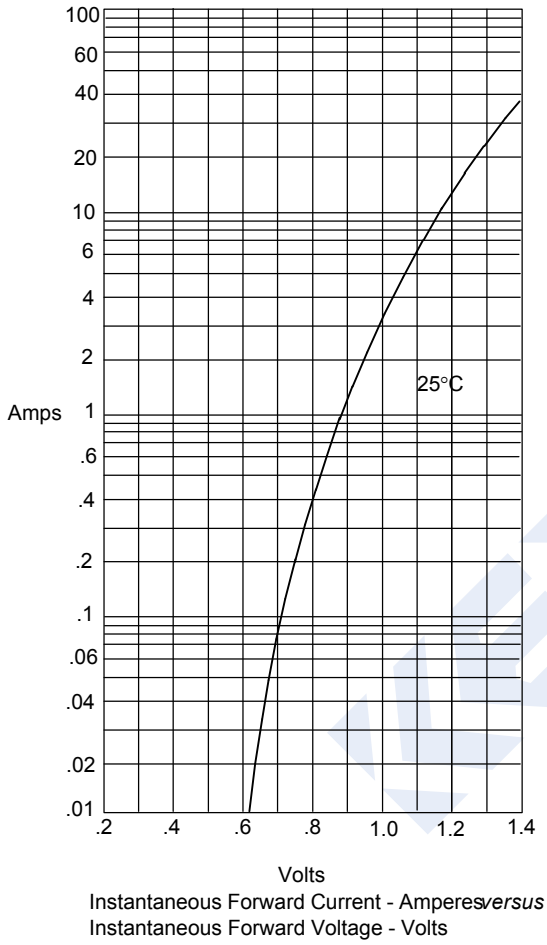


Figure 2
Forward Derating Curve

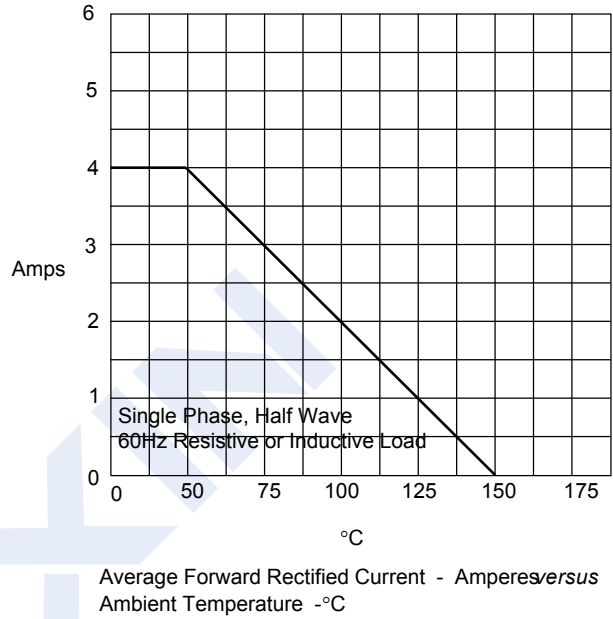


Figure 3
Peak Forward Surge Current

